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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/824,679
	Filing Date	04/15/2004
	First Named Inventor	Rueckes, et al.
	Art Unit	2818
	Examiner Name	TBA
Total Number of Pages in This Submission	Attorney Docket Number	112020.128US2 NAN--5

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
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<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks 1. PTO Form 1449 (33 pgs.) 2. 14 Publications	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Peter M. Dichiaro
Signature	
Date	June 1, 2004

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name	Tina M. Dougal	
Signature		Date 6/1/04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: RUECKES, et al.

Application No.: 10/824,679

Filed: April 15, 2004

For: **Methods of Making
Electromechanical Three-Trace Junction
Devices**

Group Art Unit: 2818

Examiner: To Be Assigned

Attorney Docket No.: 112020.128 US2 (NAN-5)

CERTIFICATE OF MAILING (37 C.F.R. § 1.8 a)

I hereby certify that this correspondence is being deposited with the United States Postal Service under 37 CFR 1.8a and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 1, 2004.

By: _____

Tina M. Dougal

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97-98, and M.P.E.P. §609, Applicants hereby enclose Forms PTO-1449 that includes publications that have previously been cited in a prior patent application Serial No. 10/033,032 filed December 28, 2001 from which the above application claims priority under 35 U.S.C. §120. With the exception of the following list of publications identified below, pursuant to 37 C.F.R. § 1.98(d), no further copies of the previously cited art are enclosed.

Enclosed Publications

<u>Document Number</u>	<u>Date</u>	<u>Name</u>
2003/0124837	07/03/03	Rueckes, et al
2003/0021966	01/30/03	Rueckes, et al.
2003/0108480	06/2003	Baker et al.
3,970,887	07/1976	Smith et al.

5,216,631	06/1993	Sliwa
6,100,109	08/2000	Melzner et al.
6,333,016	12/2001	Resasco et al.
6,354,133	03/2002	Yedur et al.
6,443,901	09/2002	Fraser
6,541,309	04/2003	Chen
6,574,130	06/03/03	Brock, et al.
6,586,965	07/2003	Kuekes
6,611,033	08/2003	Hsu et al.
6,643,165	11/04/03	Segal, et al.

Other References (Author, Title, Date Pertinent pages, etc.)

Snow, E.S. et al., "Random Networks of Carbon Nanotubes as an Electronic Material." Applied Physics Letters, March 31, 2003, Vol. 82, No. 13, 2145-2147.

Bernholc et al., "Mechanical and Electrical Properties of Nanotubes", Annu. Rev. Mater. Res., 32 (2002) 347.

It is respectfully requested that the information above be expressly considered and that the publications be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

As this paper is being filed prior to the issuance of a first Office Action on the merits, no fee is believed to be due pursuant to 37 C.F.R. § 1.97(b)(3).

In the event a fee is due, the Commissioner is authorized to charge any fee deficiency or credit any overpayment to Deposit Account No. 08-0219.

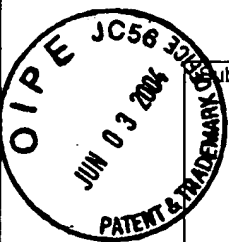
Respectfully submitted,

Dated: June 1, 2004



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Subt. For, PTO-1449				Docket Number 112020.128US2 NAN-5		Application Number 10/824,679	
INFORMATION DISCLOSURE IN AN APPLICATION (Use several sheets if necessary)				Applicant Rueckes, Thomas, et al.			
				Filing Date April 15, 2004		Group Art Unit 2818	
Sheet	1	OF	33				

U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,346,683	09/13/94	Green et al.	423	447.2	
	5,424,054	06/13/95	Bethune et al.	423	447.2	
	5,456,986	10/10/95	Majetich et al.	428	403	
	5,482,601	01/09/96	Ohshima et al.	204	173	
	5,547,748	08/20/96	Ruoff et al.	428	323	
	5,626,812	05/06/97	Ebbesen et al.	264	248	
	5,716,708	02/10/98	Lagow	428	408	
	5,753,088	06/19/98	Olk	204	173	
	5,780,101	07/14/98	Nolan et al.	427	216	
	5,903,010	05/11/99	Flory et al.	257	24	
	5,925,465	07/20/99	Ebbesen et al.	428	408	
	5,928,450	07/27/99	Russell	156	169	
	5,946,930	09/07/99	Anthony	62	293	
	5,973,444	10/26/99	Xu et al.	313	309	
	5,985,446	11/16/99	Lagow	428	367	
	5,993,697	11/30/99	Cohen et al.	252	502	
	6,031,711	02/29/00	Tennent et al.	361	303	
	6,060,724	05/09/00	Flory et al.	257	24	
	6,063,243	05/16/00	Zetl et al.	204	164	
	6,083,624	07/04/00	Hiura	428	408	
	6,105,381	08/22/00	Ghoshal	62	259.2	
	6,136,160	10/24/00	Hrkut et al.	204	192.16	
	6,146,227	11/14/00	Mancevski	445	24	
	6,156,256	12/05/00	Kennel	264	461	
	6,183,714 B1	02/06/00	Smalley et al.	423	447.3	
	6,203,814 B1	03/20/01	Fisher et al.	424	443	
	6,203,864 B1	03/20/01	Zhang et al.	427	592	
	6,221,330 B1	04/24/01	Moy et al.	423	447.3	
	6,231,744 B1	05/15/01	Ying et al.	205	324	
	6,231,980 B1	05/15/01	Cohen et al.	428	402	

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U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,239,547 B1	05/29/01	Uemura et al.	313	495	
	5,196,396	03/23/93	Lieber	505	1	
	5,252,835	10/12/93	Lieber et al.	250	492.1	
	5,840,435	11/24/98	Lieber et al.	428	698	
	5,897,945	04/27/99	Lieber et al.	428	323	
	5,997,832	12/07/99	Lieber et al.	423	249	
	6,036,774	03/14/00	Lieber et al.	117	105	
	6,159,742	12/12/00	Lieber et al.	436	164	
	6,190,634 B1	02/20/01	Lieber et al.	423	439	
	5,590,078	12/31/96	Chatter	365	189.01	
	5,799,209	08/25/98	Chatter	395	876	
	5,838,165	11/17/98	Chatter	326	38	
	6,108,725	08/22/00	Chatter	710	56	
	6,138,219	10/24/00	Soman et al.	711	149	
	6,212,597 B1	04/3/01	Conlin et al.	711	105	
	6,237,130 B1	05/22/01	Soman et al.	716	10	
	4,853,893	08/01/89	Eaton, Jr. et al.	365	145	
	4,888,630	12/19/89	Paterson	357	23.5	
	5,198,994	03/30/93	Natori	365	145	
	5,444,421	08/22/95	Carroll et al.	331	111	
	5,479,172	12/26/95	Smith et al.	342	51	
	5,517,194	05/14/96	Carroll et al.	342	50	
	5,521,602	05/28/96	Carroll et al.	342	50	
	5,533,061	07/02/96	Smith et al.	375	334	
	5,553,099	09/03/96	Carroll et al.	375	334	
	5,608,246	03/04/97	Yeager et al.	257	295	
	5,626,670	05/06/97	Varshney et al.	117	7	
	5,802,583	09/01/98	Yeager et al.	711	152	
	5,850,089	12/15/98	Varshney et al.	257	295	
	5,850,231	12/15/98	Orimoto et al.	345	507	

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U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,025,618	02/15/00	Chen	257	295	
	6,044,008	03/28/00	Choi	365	145	
	6,128,214	10/03/00	Kuekes et al.	365	151	
	6,159,620	12/12/00	Heath et al.	428	615	
	6,198,655 B1	03/06/01	Heath et al.	365	151	
	5,198,390	03/30/93	MacDonald et al.	437	203	
	5,316,979	05/31/94	MacDonald et al.	437	203	
	5,426,070	06/20/95	Shaw et al.	437	203	
	5,640,133	06/17/97	MacDonald et al.	333	197	
	5,719,073	02/17/98	Shaw et al.	437	228	
	5,846,849	12/08/98	Shaw et al.	438	52	
	5,847,454	12/08/98	Shaw et al.	257	734	
	5,878,840	03/09/99	Tessum et al.	182	229	
	5,914,553	06/22/99	Adams et al.	310	309	
	5,939,785	08/17/99	Klonis et al.	257	729	
	6,051,866	04/18/00	Shaw et al.	257	417	
	6,259,277 B1	07/10/01	Tour et al.	326	136	
	5,640,343	06/17/97	Gallagher et al.	365	171	
	5,650,958	06/22/97	Gallagher et al.	365	173	
	5,793,697	08/11/98	Scheuerlein	365	230.07	
	5,841,692	11/24/98	Gallagher et al.	365	173	
	5,930,164	07/27/99	Zhu	365	158	
	5,946,228	08/31/99	Abraham et al.	365	173	
	6,052,263	04/18/00	Gill	360	113	
	6,072,718	06/06/00	Abraham et al.	365	173	
	6,104,633	08/15/00	Abraham et al.	365	171	
	6,166,948	12/26/00	Parkin et al.	365	173	
	6,219,212 B1	04/17/01	Gill et al.	360	324.2	
	4,701,842	10/20/87	Olnowich	364	200	
	4,985,871	01/15/91	Catlin	365	230.06	

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				Applicant Rueckes, Thomas, et al.			
				Filing Date April 15, 2004		Group Art Unit 2818	
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U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,184,320	02/02/93	Dye	365	49	
	5,412,785	05/02/95	Skruhak et al.	395	375	
	5,586,286	12/17/96	Santeler et al.	395	432	
	5,608,888	03/04/97	Purcell et al.	395	412	
	5,623,638	04/22/97	Andrade	395	494	
	5,651,126	07/22/97	Bailey et al.	395	401	
	5,652,856	07/29/97	Santeler et al.	395	432	
	5,699,317	12/16/97	Sartore et al.	365	230.06	
	5,271,862	02/24/98	Sartore et al.	395	445	
	5,781,717	07/14/98	Wu et al.	395	182.06	
	5,875,451	02/23/99	Joseph	711	105	
	5,887,272	03/23/99	Sartore et al.	711	105	
	6,038,637	03/14/00	Berube et al.	711	105	
	6,049,856	04/11/00	Bolyn	711	168	
	6,088,760	07/11/00	Walker et al.	711	104	
	6,226,722 B1	05/01/01	Shippy et al.	711	168	
	6,233,665 B1	05/15/01	Bolyn	711	168	
	5,444,651	08/22/95	Yamamoto et al.	365	108	
	6,031,756	02/29/00	Gimzewski et al.	365	151	
	3,448,302	06/03/69	Shanefield	307	318	
	4,845,533	07/04/89	Pryor et al.	357	2	
	4,876,667	10/24/89	Ross et al.	365	113	

Foreign Patent Documents							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLA SS	TRANSLATION	
						YES	NO
	0 613 130 A1	08/31/94	EP				
	0 665 187 A1	08/02/95	EP				
	0 665 187 B1	12/29/97	EP				
	0 989 579 A3	03/29/00	EP				
	0 945 402 A1	09/29/00	EP				

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Foreign Patent Documents							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLA SS	TRANSLATION	
						YES	NO
	1 046 613 A2	10/25/00	EP				
	1 052 520 A1	11/15/00	EP				
	1 054 249 A1	11/22/00	EP				
	1 059 266 A3	12/20/00	EP				
	1 061 044 A1	12/20/00	EP				
	1 061 544 A1	12/20/00	EP				
	1 061 555 A1	12/20/00	EP				
	1 069 206 A2	01/17/01	EP				
	1 072 693 A1	01/31/01	EP				
	1 100 106 A2	05/16/01	EP				
	1 100 297 A2	05/16/01	EP				
	WO 96/38410	12/05/96	PCT				
	WO 97/09272	03/13/97	PCT				
	WO 97/43473	11/20/97	PCT				
	WO 98/26871	06/25/98	PCT				
	WO 98/39250	09/11/98	PCT				
	WO 98/48456	10/29/98	PCT				
	WO 99/06618	02/11/99	PCT				
	WO 99/47570	09/23/99	PCT				
	WO 99/48810	09/30/99	PCT				
	WO 99/58748	11/18/99	PCT				
	WO 99/65821	12/23/99	PCT				
	WO 01/03208	01/11/01	PCT				
	WO 95/02709	01/26/95	PCT				
	WO 95/02709	01/26/95	PCT				
	WO 96/41043	12/19/96	PCT				
	WO 97/31139	08/28/97	PCT				
	WO 98/39251	09/11/98	PCT				
	WO 00/44094	07/27/00	PCT				
	0 688 618 A2	08/23/95	EP				

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Foreign Patent Documents							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLA SS	TRANSLATION	
						YES	NO
	0 269 225 A2	06/01/88	EPO				
	0 269 225 A3	06/01/88	EPO				
	0 315 392 A2	05/10/89	EPO				
	0 315 392 A3	05/10/89	EPO				

Other Documents (Including Author, Title, Date Pertinent Pages, Etc.)		
A1	Winslow, Troy. "Advanced+ Boot Block World's First 0.18-Micron Flash Memory." Flash Products Group. April 17, 2000.	
A2	"Double Sided 4Mb SRAM Coupled Cap PBGA Card Assembly Guide." International Business Machines Corp. (IBM), 1998.	
A3	Tyagi <i>et al.</i> "A 130nm Generation Logic Technology Featuring 70nm Transistors, Dual Vt Transistors and 6 Layers of Cu Interconnects." Portland Technology Development.	
A4	"Preliminary: 8Mb (256Kx36 & 512Kx18) and 4Mb (128Kx36 & 256Kx18) [IBM0418A8CBLBB, IBM0418A4CBLBB, IBM0436A8CBLBB, IBM0436A4CBLBB]." International Business Machines Corp. (IBM), 1998.	
A5	Wei, Chengyu <i>et al.</i> "Temperature and Stain-Rate Dependent Plastic Deformation of Carbon Nanotube."	
A6	"Package Mechanicals for USAR ICs." USAR Systems, Inc., 1998.	
A7	Dipert, Brian. "Exotic Memories, Diverse Approaches." EDN Magazine. April 26, 2001, 56-70.	
A8	Duan, Xiangfeng. "Indium Phosphide Nanowires as Building Blocks for Nanoscale Electronic and Optoelectronic Devices." Nature (2001); 409: 66-69.	
A9	Yang. "A High Performance 180 nm Generation Logic Technology." Portland Technology Development.	
A10	Dai, Hongjie. "Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices." The Journal of Physical Chemistry B (1999); 103: 11246-11255.	
A11	Callaby, D. Roy <i>et al.</i> "Solid State Memory Study Final Report." National Media Lab, Feb. 1994.	
A12	Cui, Yi. "Doping and Electrical Transport in Silicon Nanowires." The Journal of Physical Chemistry B (2000); Vol. 104, No. 22: 5213-5216.	

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				Filing Date April 15, 2004		Group Art Unit 2818	
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A13	Li, Mingtao <i>et al.</i> "Direct Three-dimensional Patterning Using Nanoimprint Lithography." <i>Applied Physics Letters</i> (2000); Vol. 78, No. 21: 3322-3324.
A14	"8 Mb Synchronous Communication SRAM (IBM0418A86LQKA, IBM0418A86SQKA, IBM0436A86IQKA, IBM436A86SQKA)." International Business Machines Corp. (IBM), 1999.
A15	Dipert, Brian. "Memory Cards: Designing with a Full Deck." <i>EDN Magazine</i> . May 25, 2000.
A16	Schönenberger, Christian <i>et al.</i> "Physics of Multiwall Carbon Nanotubes." <i>Physics World</i> . April 4, 2000.
A17	Whatmore, Roger W. "Nanotechnology." <i>Ingenia</i> . February, 2000.
A18	"Nanochip NC800SX, 0.8 Gbyte Molecular Memory IC (R/W), Nanochip NC200SX, 0.2 Gbyte Molecular Memory IC (R/W), Nanochip NCM4510SX, Molecular Array Read/write Engine, Low Voltage Thermal Actuated, Dynamic Media Series M2, Nanochip NC4525DX, A/D-D/A Interface, Preliminary Specifications, Advance Information, (C) 1996-2000 Nanochip Document NCM2230500."
A19	Odom, Teri Wang <i>et al.</i> "Atomic Structure and Electronic Properties of Single-Walled Carbon Nanotubes." <i>Nature</i> (1998); 391: 62-64.
A20	Ouyang, Min. "Atomically Resolved Single-Walled Carbon Nanotube Intramolecular Junctions." <i>Science</i> (2001); 291: 97-100.
A21	Odom, Teri Wang <i>et al.</i> "Magnetic Clusters on Single-Walled Carbon Nanotubes: The Kondo Effect in a One-Dimensional Host." <i>Science</i> (2000); 290: 1549-1552.
A22	Wong, Eric <i>et al.</i> "Nanobeam Mechanics: Elasticity, Strength, and Toughness of Nanorods and Nanotubes." <i>Science</i> (1997); 277: 1971-1975.
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